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**From:** Poppell, Sam W. [Poppell.Sam@epa.gov]  
**Sent:** 3/18/2019 2:51:41 PM  
**To:** Fife, Greg [fife.greg@epa.gov]; Bordelon, David [David.Bordelon@WestonSolutions.com]; Brozowski, George [brozowski.george@epa.gov]  
**Subject:** RE: Lowerline Assessment Data

Greg, you are correct. In past cleanups EPA has consistently used the 5 pCi/g for radium-226 cleanup. Twice or three times background has been consistently used for doing surveys with uR meters. Be careful using the units '10 microCi/hr' – the correct unit for what you are describing should be "10 micro (u) R/hr. This is the correct unit for exposure and/or exposure rate. The background for that location, and it may vary from location to location, should be between 5 – 12 uR/hr. This all depends on the construction material and natural environmental radiation levels.

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**From:** Fife, Greg  
**Sent:** Friday, March 15, 2019 9:55 AM  
**To:** Bordelon, David <David.Bordelon@WestonSolutions.com>; Brozowski, George <brozowski.george@epa.gov>; Poppell, Sam W. <Poppell.Sam@epa.gov>  
**Subject:** RE: Lowerline Assessment Data

I'm looking for advice from George. But the 5 pCi/g should be our cleanup level, its what we have used and its in the guidance documents. The twice background or 10 microCi/hr seems to be our action level. That is based on the 5 microCi/hr background for the area.

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**From:** Bordelon, David <David.Bordelon@WestonSolutions.com>  
**Sent:** Friday, March 15, 2019 9:49 AM  
**To:** Fife, Greg <fife.greg@epa.gov>; Brozowski, George <brozowski.george@epa.gov>; Poppell, Sam W. <Poppell.Sam@epa.gov>  
**Subject:** FW: Lowerline Assessment Data

FYI. This really doesn't tell us much until we know their action level, either the 2x background CPM # or the correlation to 5 pCi/g #. Do you all have a preference on which to use? Don't know if they performed a correlation.



**David Bordelon**  
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**From:** Cook, David  
**Sent:** Thursday, March 14, 2019 6:38 PM

**To:** Bordelon, David <[David.Bordelon@WestonSolutions.com](mailto:David.Bordelon@WestonSolutions.com)>

**Subject:** RE: Lowerline Assessment Data

See attached map. This is just a quick and dirty map (need to add proper title block and source info, etc.) Let me know with CPM thresholds too.

Thanks

**David Cook**

**START R6 IT/Data Management Lead**

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**From:** Bordelon, David

**Sent:** Thursday, March 14, 2019 4:20 PM

**To:** Cook, David <[David.Cook@WestonSolutions.com](mailto:David.Cook@WestonSolutions.com)>

**Subject:** FW: Lowerline Assessment Data

Could you create a GIS project with the attached data? WO 20600.012.001.1227.01



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**From:** Kelly Ausbrooks [<mailto:kausbrooks@amrad.com>]

**Sent:** Thursday, March 14, 2019 3:21 PM

**To:** Bordelon, David <[David.Bordelon@WestonSolutions.com](mailto:David.Bordelon@WestonSolutions.com)>; Greg Lord <[glord@aar-llc.com](mailto:glord@aar-llc.com)>

**Subject:** RE: Lowerline Assessment Data

**\*\* External Email \*\***

I was able to reformat into an Excel file that's small enough to transmit. I didn't embed the images. The file includes all the salient information. Coordinates are in LA state plane, NAD 83 datum, differentially corrected. CPM is from a Ludlum 44-10, gross counts, open window on the 2221 with 1 second export.

Let me know if there's any questions.

KA

**Kelly Ausbrooks, MS, CHP**

Corporate Radiation Safety Officer

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**From:** Bordelon, David <[David.Bordelon@WestonSolutions.com](mailto:David.Bordelon@WestonSolutions.com)>  
**Sent:** Thursday, March 14, 2019 11:07 AM  
**To:** Kelly Ausbrooks <[kausbrooks@amrad.com](mailto:kausbrooks@amrad.com)>; Greg Lord <[glord@aar-llc.com](mailto:glord@aar-llc.com)>  
**Subject:** Lowerline Assessment Data

Kelly or Greg,

Were you able to set up an FTP site to transfer the Lowerline data?



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